

ICLEI-Local Governments for Sustainability

Introduction

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ICLEI - A Worldwide Movement of Local Governments

15 Offices

68 Countries

6 Continents (over 1200 members)

- **Climate Change Mitigation**
- **Climate Adaptation / Resilience**
- **Sustainability Performance**

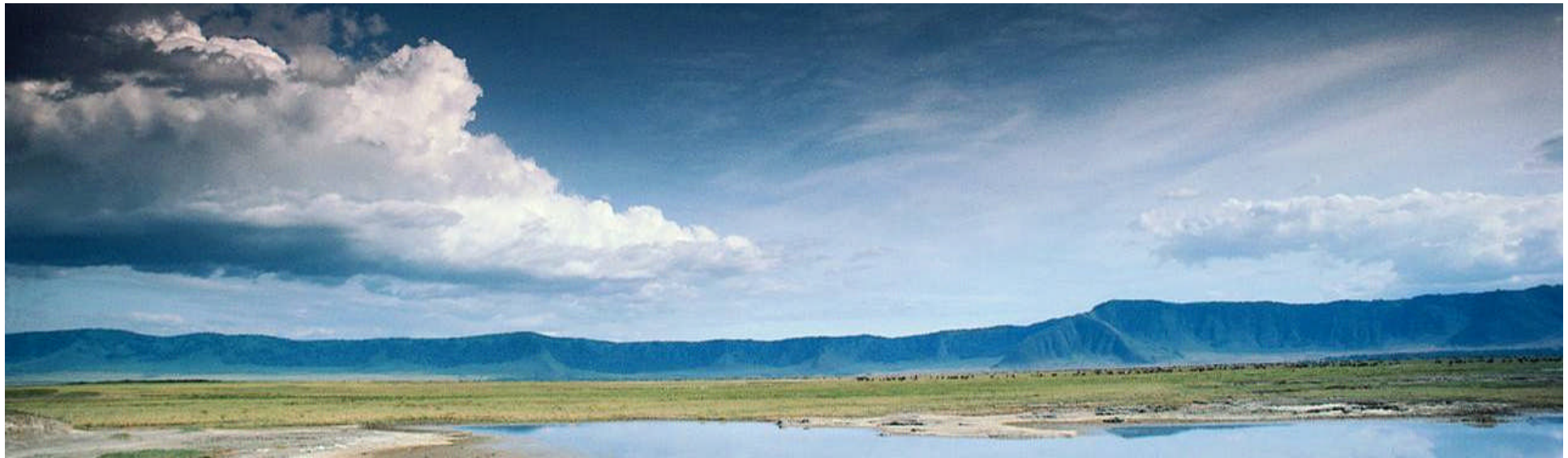
Mission

Our mission is to build, serve, and drive a movement of local governments to advance *deep reductions* in greenhouse gas emissions and achieve *tangible improvements* in local sustainability.



ICLEI USA Network

- More than 600 member local governments
- Representing more than 30% of U.S. population
- 145 Members in California



How do local governments benefit from working with ICLEI?

- National and international network of peers
- Software (emissions analysis, climate planning)
- Guidebooks and Toolkits
- Standard inventory methodology and technical assistance
- ICLEI trainings and events
- Policy and communications assistance
- Framework for approaching climate protection
- Online peer-to-peer and other networking opportunities



Statewide Energy Efficiency Collaborative

AN ALLIANCE TO SUPPORT LOCAL GOVERNMENT

The Statewide Energy Efficiency Collaborative (SEEC) is a new alliance to help cities and counties reduce greenhouse gas emissions and save energy. SEEC is a collaboration between three statewide non-profit organizations and California's four Investor Owned Utilities.



SEEC Trainings and Tools

- Regional training workshops
- Local government operations inventories
- Community scale inventories
- Target setting + climate action planning
- Suite of tools + templates



ICLEI Services

■ Basic Member Services:

- The ICLEI Member Network
- Climate Protection and Sustainability (Mitigation, Adaptation, & Sustainability support)
- Events
- Communications/Media Support
- Recognition
- Governance & Engagement

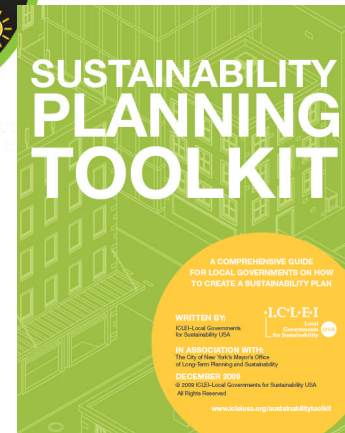
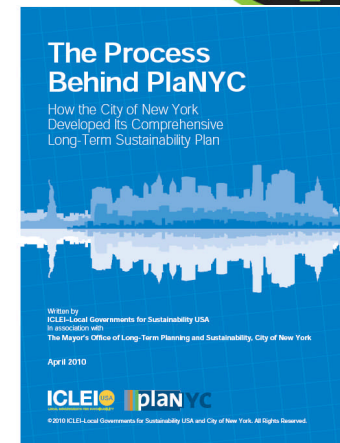
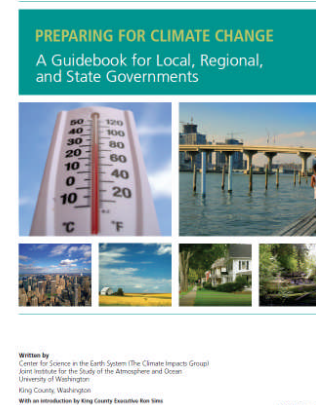
■ Consulting Services

- GHG Inventories
- Climate Action Planning
- Sustainability Planning



ICLEI Tools and Resources

- **GHG Accounting Software and Tools**
- **Climate & Air Pollution Planning Assistant (CAPPA)**
- **Implementation Guidebooks & Case Studies**
- **Sustainability Planning Toolkit**
- **Climate Adaptation Planning Resources**
- **Policy Briefs & Analyses**
- **Skills Trainings, Webinars, & Events**



Climate Mitigation

- Comprehensive suite of guidance, tools, best practices, and resources
- Recognition for achievements for each milestone



Clean Air Climate Protection Software (CACCP v 3.0)



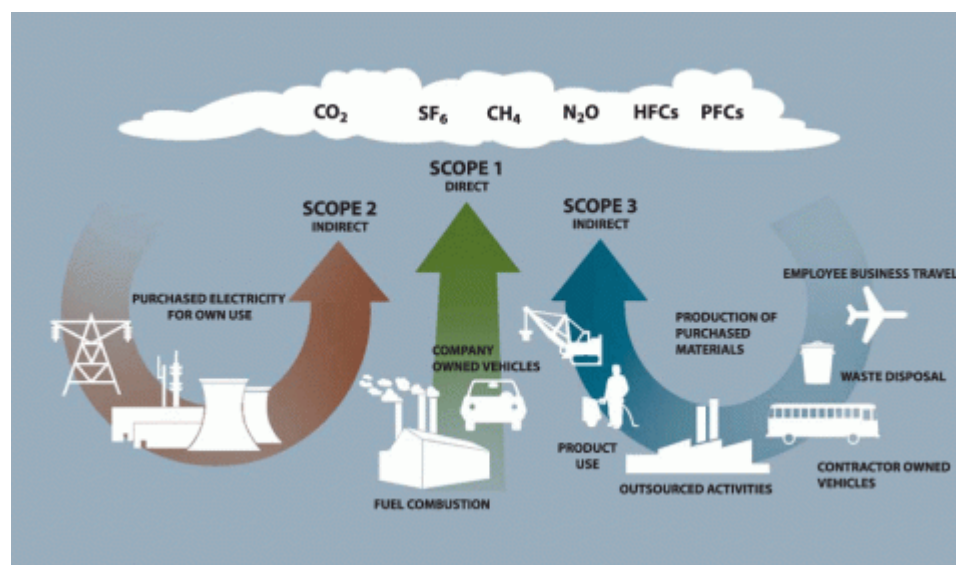
- Continued development in 2010
- Improved data import and reporting functionality
- Fully compliant with the Local Government Operations Protocol

Fuel Type	Units	Energy Use
Electricity (Grid Average)	(kWh)	0
Commercial Coal	(tons)	0
Fuel Oil (#1 2.4)	(US gal)	0
Kerosene	(US gal)	0
Landfill Gas or biogas	(MMBtu)	0
Natural Gas	(thousand cu ft)	0
Propane	(US gal)	0
Stationary Gasoline	(US gal)	0
Stationary LPG	(US gal)	0
Wood 12 pct moisture	(tons)	0



GHG Emissions Protocols for Local Governments

- **Local Government Operations Protocol, released in 2008**
- **Community Protocol under development in 2010 - 2011**
- **Guidance for quantifying emissions reductions under development in 2010 - 2011**



Climate & Air Pollution Planning Assistant (CAPPA v1)

- Comprehensive database of over 100 measures for reducing GHG emissions and energy use
- Allows scenario modeling and comparing measures
- Supports target setting and climate action planning
- Released in February 2010



Electric Vehicles

Electric (EVs) vehicle drive trains are much more efficient than the drive trains used on standard internal combustion engine vehicles. Electric motors, rather than pistons and shafts, provide necessary propulsion. EVs use regenerative braking to capture and reuse the energy of the vehicle's momentum in stop-and-go traffic, greatly increasing their efficiency in city driving.

Neighborhood electric vehicles (NEVs) have a top reading, parking enforcement, and small deliveries recently introduced electric utility pickups and delivery Battery Electric Vehicles Available below).

GHG Emissions

The effect of EVs on greenhouse gas emissions and the particular vehicles being compared. In an electric vehicle may produce more GHGs than a gas with a relatively low-carbon electric grid an electric EVs are charged from renewable energy, emissions

Criteria Air Pollutants

In some communities, exhaust from cars and light pollution. Electric vehicles can greatly reduce local emissions from the vehicle itself. The source of electricity producing it. In most cases they will be less than and they will be farther from where people are born

Other Benefits

Electric vehicles have a lower operating cost than battery life still remain, but maintenance and fuel price of battery replacement.

Examples of Local Action

Over one million people a year in Chattanooga, TN ride in the service.

For more information, see: www.eers.energy.gov/aldc/pdf/

Alameda, CA purchased six neighborhood electric vehicles replaced older, more polluting fleet vehicles.

For more information, see: <http://www.bizjournals.com/east>

Asheville, NC recently purchased a fleet of eight 100% electric For more information, see: www.asheville.gov

The City of Yacaville currently leases 25 Toyota RAV4 EV's This is reportedly the highest number of any municipality in the For more information: www.ci.yacaville.ca.us/departments/

Other Resources

[Alternative Fuel & Advanced Vehicles Data Center](#)

[New Battery Electric Vehicles Available](#)

Degree of Implementation

The default values below are based on a typical degree of implementation of this strategy, as well as your previous responses to user input questions. However, your local scenario may vary significantly. CAPPA will assume that if you choose to include this strategy in your local climate action plan, this degree of implementation will apply. Adjust as appropriate to your local circumstance by editing the blue cells below.

Government Operations

5 Number of Electric Vehicles

Community

5 Number of Electric Vehicles

Cost Impacts

The default values below are based on the reported collective experience of US local governments throughout the ICLEI network. CAPPA will assist you in estimating emissions and cost impacts and developing a local climate action plan based on these values. Adjust as appropriate to your local circumstance by editing the blue cells below.

Government Operations

\$3.00	Price of Gasoline (\$ per gallon)
\$ 0.0988	Price of Electricity (\$ per kWh)
20	Miles per Gallon of Vehicle Replaced
12,042	Average Annual Miles per Vehicle
\$10,000	Incremental Cost of Electric Vehicle
3,056	Annual Gasoline Savings (gallons)
24,108	Annual Electricity Use (kWh)
\$6,787	Annual Cost Savings
7.4	Simple Payback (years)

Community

\$3.00	Price of Gasoline (\$ per gallon)
\$ 0.1094	Price of Electricity (\$ per kWh)
20	Miles per Gallon of Vehicle Replaced
12,042	Average Annual Miles per Vehicle
\$10,000	Incremental Cost of Electric Vehicle
3,056	Annual Gasoline Savings (gallons)
24,108	Annual Electricity Use (kWh)
\$6,532	Annual Cost Savings
7.7	Simple Payback (years)

Save Changes

Restore Defaults

Associated Annual Greenhouse Gas and Criteria Air Pollutant Emissions Reductions

The values below are calculated using default emissions factors consistent with those contained in the Clean Air and Climate Protection software.

Select utility region

ASCC Alaska Grid (AKGD)

Government Operations

CO2e (metric tons)	NOx (lbs)	SOx (lbs)	CO (lbs)	VOCs (lbs)	PM10 (lbs)
15	-51	-29	2,065	217	4

Community

CO2e (metric tons)	NOx (lbs)	SOx (lbs)	CO (lbs)	VOCs (lbs)	PM10 (lbs)
15	-51	-29	2,065	217	4

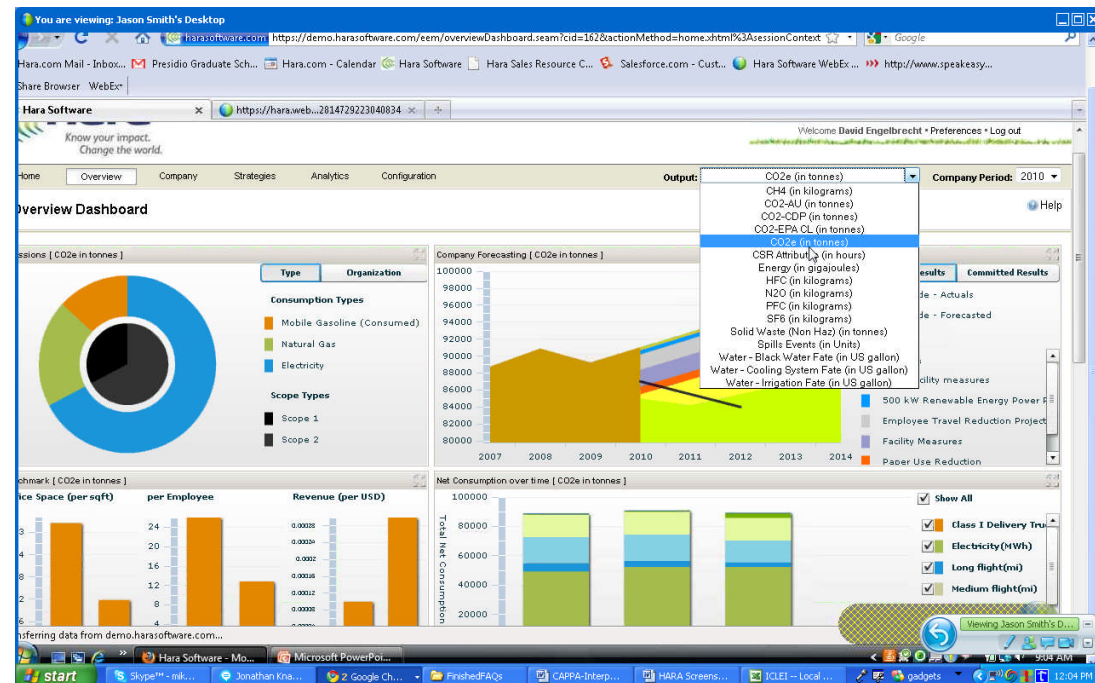
View Complete Emission Coefficients Set

[Solar Hot Water](#)
[Wind](#)
[LT-EG2](#)
[Green Power Purchase](#)
[RECs](#)
[LT-1](#)
[LT-11](#)

Hara Environment & Energy Management Software



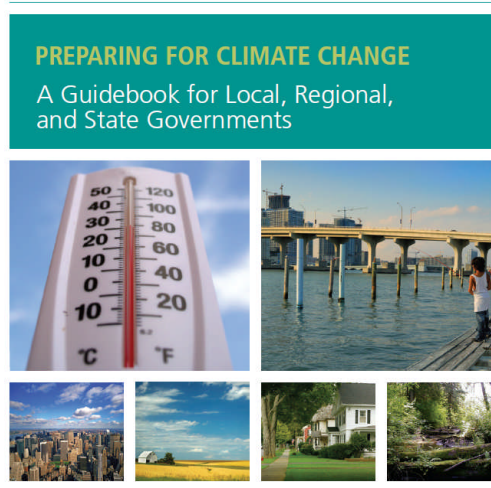
- Strategic partnership between Hara and ICLEI
- Hara EEM supports all Five Milestones for Mitigation
- Provides easy data import, management, and reporting



Climate Adaptation

Climate Resilient Communities

- Comprehensive guidance, tools, and resources for local adaptation planning
- ADAPT Planning Tool and database of best practices under development



Written by
Center for Science in the Earth System (The Climate Impacts Group)
Joint Institute for the Study of the Atmosphere and Ocean
University of Washington
King County, Washington
With an introduction by King County Executive Ron Sims

In association with



WWW.ICLEIUSA.ORG



Sustainability

Nearly 100 **Sustainability Goals** comprise the STAR framework with corresponding **Purpose** statements.



Measures

Outcomes

- Performance Target
- Prime

Outputs

- Policy
- Practice



Thank You

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